



# **City of Seattle**

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## **SEATTLE PUBLIC UTILITIES (SPU) CORE CUT PROCEDURES**

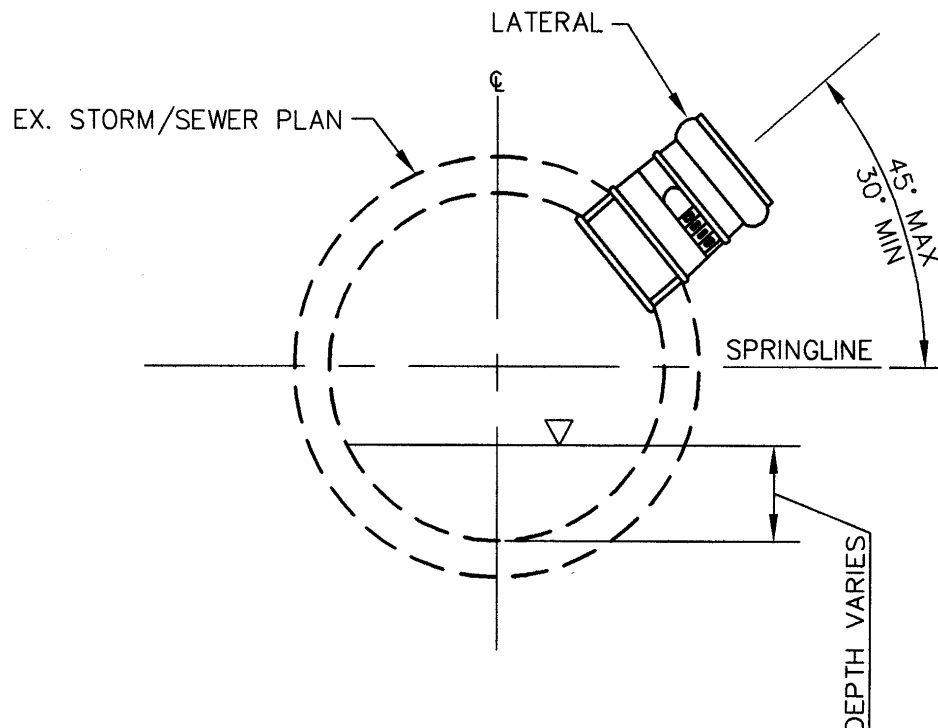
### **I. REQUIREMENT**

New side sewer or service drain connections requiring a Tee installed onto an existing sewer or storm sewer lines or structures will be core drilled by City of Seattle workforce, unless otherwise authorized by Drainage and Wastewater Division (DWD) of Seattle Public Utilities (SPU). This requirement applies to pipe connections from six inches (6") through twelve inches (12") diameter. Connections performed by non-City entities must be inspected and accepted by the City at the permit holder's expense. Unacceptable work will be corrected directly or indirectly by City staff at the expense of the permit holder.

Expect the center point of the core tap to be set no lower than 30 degrees and not higher than 45 degrees above the springline of the host pipe, regardless of the existence of a side sewer grade release. , The City owns and maintains the tee (service connection point), and therefore determines the angle of the tee set into the main.

The City reserves the right to determine appropriate placement of service connections relative to field conditions and may refuse to perform the tap at the permit holder's proposed location. Discrepancies may be elevated to the SPU Field Manager for final determination.

Springline is defined as the widest cross-section of the host pipe, measured horizontally.



## II. SCHEDULING

- A. DWD requires a minimum of forty-eight (48) hours' notice from the Registered Side Sewer Contractor (RSSC) for scheduling a core cut (unless noted otherwise). For core cuts on AC pipe a minimum 10 days notice will be required.
- B. Contractor shall call SPU at (206) 615-0511 for scheduling.

### III. INFORMATION

MAINLINE SIZE	LATERAL SIZE			
	6-INCH	8-INCH	10-INCH	12-INCH
8-INCH	OK	MH	NA	NA
10-INCH	OK	MH	MH	NA
12-INCH	OK	OK	MH	MH
14-INCH DIP	OK	OK	MH	MH
15-INCH	OK	OK	MH	MH
16-INCH DIP	OK	OK	MH	MH
18-INCH	OK	OK	MH	MH
20-INCH	OK	OK	OK	MH
21-INCH	OK	OK	OK	MH
24-INCH AND GREATER	OK	OK	OK	OK

#### **LEGEND:**

- OK – okay to core tap between 30 and 45 degrees (45 degrees will be the default angle)
- NA – Not allowed, lateral is bigger than mainline
- MH – SPU approval required. MH type or rolled in Tee or Wye.

#### **NOTES:**

- Brick sewers requires grafting a tee.
- Corrugated metal pipe shall be per Standard Plan No. 279.
- All connections subject to capacity check prior to approval for core tapping.
- Lateral sizes larger than 12" – SPU approval required.
- New mainline pipes less than 24" requires prefabricated Tees or Wyes.

- Measurement (in linear feet) from centerline of D/S M/H to centerline of service tap will be taken by DWW core tap crew and provided to contractor for entry onto their as-built document.

#### **IV. SITE PREPARATION BY CONTRACTOR**

- A. Plan the location of side sewer to the main line sewer. Connections will be installed perpendicular to the main line sewer or storm drain, and at the slope above the spring line, indicated in Requirements in Section I. Multiple connections to a single pipe segment are allowed only if there will be at minimum 2' of pipe barrel distance between each tap.
- B. Condition of the host pipe. If the City determines that a core tap should not be performed due to existing conditions of the host pipe (I.E., cracked or otherwise damaged), the City will determine the best method for providing a service connection. Charges to the Permit holder, under this condition, will be the same as if the service connection were being performed onto the undamaged infrastructure.

However, if the City determines that the utility was damaged by the Contractor's operation, then time and materials charges will be invoiced to the Permit holder, who is held responsible for the Contractor's work.

- C. Do all preparatory work for the installation of the Tee including:
  1. Drive up vehicular access to within 50 feet of location of tap. Where vehicular access is not possible, contractor must make provisions, at no cost to the City, to place the core drilling equipment where the tap can be accomplished. The Contractor will assure that SPU/DWD equipment is not damaged.
  - i. 2. A minimum of three (3) feet wide horizontal and vertical clearance is required for the drilling equipment, setup and operation. For core taps onto 24-inch diameter pipe and smaller, the Contractor shall excavate completely around the pipe at the area of the core tap in such a manner as to allow the SPU/DWD crew to secure drilling equipment and ensure that integrity of existing infrastructure is not jeopardized. Excavation shall be free from excessive amounts of water. Contractor will provide means of dewatering as necessary, at no cost to the City.
  3. Connections to A/C pipe requires specialized methods and removal of material from the site. Access to host pipe shall be sized to allow the use of hand tools to remove approximately two (2) feet

of the existing A/C pipe. The Contractor shall excavate material from around the pipe using extreme care to avoid any abrasions to the pipe, in preparation for immediate access by the SPU/DWD crew who will remove approximately two (2) feet of the A/C pipe and replace it with a section of PVC pipe containing the service Tee. SPU/DWD crew will dispose of asbestos related material specific to their service connection activity.

#### D. Excavation and Shoring

Prior to a SPU/DWD employee entering an excavation, a “competent person” as defined by WAC 296-155-650 shall be available at the site for consultation.

1. Competent person must be familiar with whichever type of protective system that has been installed at the site, and be able to explain the system, it's tabulated data and how it's installation is in compliance with WISHA standards. Tabulated data documentation must be available and on the site at the time of the service connection.
2. No employee of SPU/DWD will enter an excavation, until the contractor can demonstrate compliance with applicable WISHA standards. Contractor will be charged Stand By Time if shoring or protective system does not comply and results in rescheduling or on site SPU/DWD staff time exceeding two hours. Other general requirements required by WISHA will also be evaluated (i.e. egress, water accumulations, confined space entry, etc.) and may result in re-scheduling SPU/DWD work.
3. Any soil in an excavation in which a SPU/DWD employee is expected to perform work in, will be considered “Type C” soil, unless the competent person can otherwise classify the soil using methods described in the WISHA standard.

## **V. EXCEPTIONS**

An exception is a request to vary from any process defined in the core cut procedures, like the tap angle on the mainline, or installing an 8" tap on an 8" mainline. Exceptions must be reviewed and approved by DWD staff prior to final scheduling the core cut. DWD requires five working days to process an exception.

DWD will need a drawing detailing the requested exception. It can be faxed (8-1/2x11 size) to the DWD office at 206-684-0963 Attn: Scheduling. Please include the permit number, RSSC name and phone number, and the specific location on the document.